THE CITY OF SAN DIEGO

REPORT TO THE CITY COUNCIL

DATE ISSUED: May 4, 2011 REPORT NO: 11-072

ATTENTION: Council President and City Council

SUBJECT: FY 2011 Recognition of Award Winning Projects – National Public Works Week

THIS IS AN INFORMATION ITEM ONLY. NO ACTION IS REQUIRED ON THE PART OF THE COUNCIL.

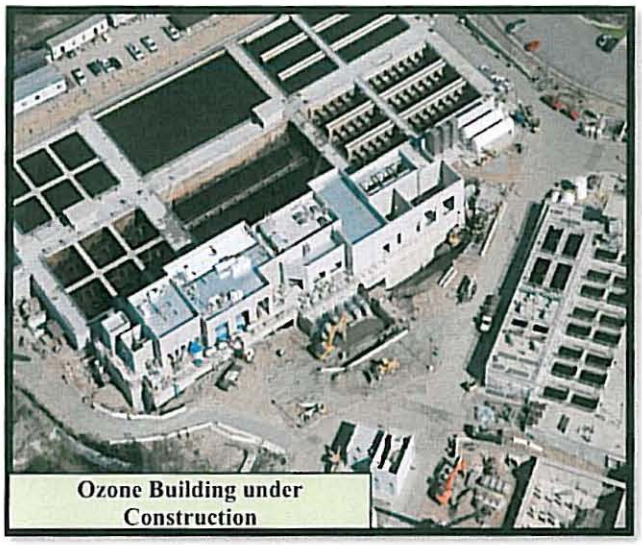
The City of San Diego is the recipient of twenty-one (21) awards for outstanding infrastructure projects from the American Public Works Association (APWA), American Society of Civil Engineers (ASCE), Construction Management Association of America (CMAA), American Council of Engineering Companies (ACEC), the California Park and Recreation Society, California Construction News, and the Society for Protective Coatings.

American Public Works Association APWA | American Society of Civil Engineers ASCE | Construction Management Association of America CMAA | American Council of Engineering Companies ACEC | California Park and Recreation Society CPRS | California Construction Magazine | Society for Protective Coatings SSPC

- The **APWA** is an international educational and professional association of public agencies, private sector companies and individuals dedicated to providing high quality public works goods and services. The APWA awards recognize the partnership between the managing agency, the consultant/architect/engineer, and the contractor who, working together, complete public works projects. APWA also recognizes outstanding individuals representing the best in the public works profession.
- Each year, **ASCE** recognizes those who contribute to the field of engineering. The Honor and Awards Program objective is the advancement of the engineering profession through the recognition of exceptionally commendable achievement.
- The **CMAA** promotes and enhances leadership, professionalism, and excellence in managing the development and construction of projects and programs.
- The **ACEC** is a 50-year-old, nonprofit association of private consulting engineering and land surveying firms. Every year, it honors projects that demonstrate exceptional achievement in engineering through its Engineering Excellence Awards.
- The **CPRS** awards program recognizes excellence of those agencies and individuals that publicize, develop, manage and support programs, parks and facilities that embody and embrace accessibility, service to the community, and environmental stewardship.
- **California Construction Magazine** holds a statewide competition annually to recognize construction and design excellence in Northern and Southern California based on project management, client service, safety, design and functionality.
- **SSPC**'s George Campbell Award recognizes outstanding achievements in the completion of difficult or complex industrial or commercial coatings projects.

The 2011 award-winning projects are:

Alvarado Water Treatment Plant Upgrade and Expansion - Ozone Facilities
APWA: Project of the Year - Environment - More than $75 Million
ACEC: National Recognition Award and Honor Award
CMAA: Project Achievement Award - Phases I to IV - Public Works Greater than $15 Million
CMAA: Honorable Mention - Phases III and IV - Public Works Greater than $15 Million
ASCE: Project of the Year


Ozone Building under Construction

The implementation of the plant's new ozone facilities completes the Alvarado Water Treatment Plant's expansion project which began in 1994. The upgrade and expansion project has resulted in the construction of eight new filters, the installation of new and rehabilitation of existing flocculation and sedimentation basins, the implementation of ozone as the primary disinfectant, new east and west clearwells, the new Earl Thomas Reservoir, the upgrade of the Lake Murray and College Ranch pump stations, and the remodeling of the existing operations building and plant entrance.

The fourth and final phase of the project consisted of installing new ozonation facilities, which include: 200 Million Gallons per Day (MGD) ozone generation and dosing capability; two 15,000-gallon liquid oxygen tanks; four 50 MGD baffled concrete contactors for primary disinfection; a 200 MGD ozonated, settled water pump station; a new ozone building; and appurtenant equipment and control systems.

The incorporation of ozone enables the City to provide safer water with lower levels of carcinogenic disinfection by-products, and more aesthetic, better tasting and odorless water.

Otay Water Treatment Plant Upgrades Phase I & Phase II
APWA: Project of the Year - Environment $26 - $75 Million

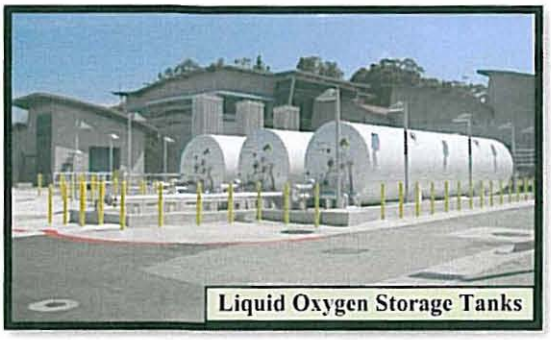
Upgrades to the treatment plant included the construction of chlorine dioxide generator and contactor facility, new flocculation and sedimentation basin, new pumped backwash system, replacing filter's media with granular activated carbon, new powdered activated carbon facility, and SCADA system upgrades.


Otay Water Treatment Plant

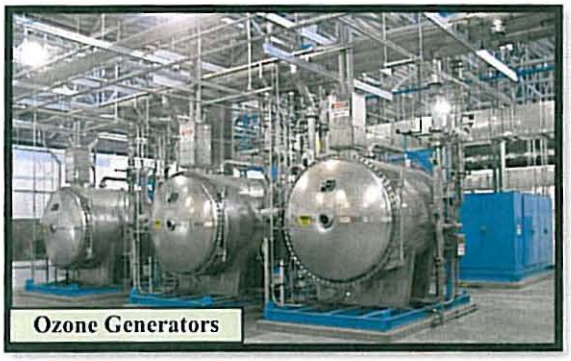
These improvements provide better operational flexibility, redundancy in the treatment process, and improved water quality including lower settled water turbidities, reduction in disinfection byproducts, minimization of filtered water turbidity spikes, and improved water quality.

Miramar Water Treatment Plant Upgrade and Expansion - Ozone Facilities - Contract C
APWA: Project of the Year - Environment $6 - $25 Million

As part of this water treatment plant's extensive upgrade and expansion project that began in 1998, Contract C has successfully installed ozone disinfection facilities, which enables the plant to use ozone as the main water disinfectant.


Liquid Oxygen Storage Tanks

Upgrading the disinfection process to ozone resulted in a plant that meets current and foreseeable drinking water regulations.


Ozone Generators

The inclusion of ozone yielded a significant increase of potable water for the local area and the region from 140 to 215 million gallons per day. This increased capacity will meet the water demands for the northern part of San Diego for the next 50 years.

North Crown Point Gazebo
APWA: Project of the Year - Parks under $2 Million

The North Crown Point Gazebo project constructed within San Diego Mission Bay replaced an existing dilapidated and unattractive facility that posed public safety concerns with a modern, attractive and well functioned facility. In addition to replacing the existing facility, the project provided Americans with Disabilities Act (ADA) upgrades to include accessible parking and paths of travel, as well as new accessible concrete benches. This project also provided new Bar-B-Q grills, hot coal receptacles and new trash containers with lids.


North Crown Point Gazebo

Ocean Air Community Park
APWA: Project of the Year - Parks $6 - $25 Million
CPRS: Award of Excellence

Ocean Air is an eighteen-acre park that provides a 16,500 square foot, LEED Silver certified community center and multi-purpose turf fields shared with the adjacent Ocean Air Elementary School. The park incorporates a large children's play area, passive recreation open turf areas, perimeter walking paths, outdoor basketball court, restroom building, par station exercise elements, picnic pavilions, and parking. A tree-lined, decomposed granite pathway provides a central design element that will grow to be wind-rows and reduce cross-winds through the park. The park incorporates the latest design concepts and technology available in energy savings, water conservation and sustainable materials.


Aerial View of Children's Playground

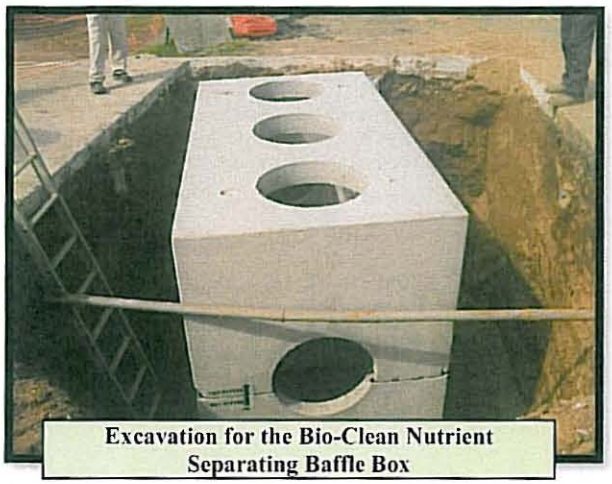
Wenrich Drive Storm Drain
APWA: Project of the Year - Utilities under $2 Million


Storm Drain Repair in Progress

The Wenrich Drive Storm Drain repair project removed the deteriorated 36-inch corrugated metal pipe that was originally built in 1967, and replaced it with a new 36-inch reinforced concrete pipe that has a life expectancy three times longer than the original pipe. The project also added more curb inlets on the street to capture all surface flows and eliminated all sinkholes caused by the deteriorated pipe, while reducing on-going maintenance requirements.

Memorial Park Infiltration Project

APWA: Project of the Year - Sustainable/Green under $2 Million



Excavation for the Bio-Clean Nutrient Separating Baffle Box

The Memorial Park Infiltration Project was a storm water pilot project to install permanent infrastructure that captures pollutants in storm water such as grease, trash, and sediments from entering the Chollas Creek. The project's goal was also to minimize the total daily maximum load entering the local watershed.

The systems installed by this project include the Brentwood Storm Tank Module and the Bio-Clean Nutrient Separating Baffle Box.

The Brentwood Storm Tank Module provides a volume of 5,937 cubic feet to store the water and allow it to infiltrate at a steady rate. Once overflowed, the runoff will continue through the new storm drain alignment and into the existing 30-inch storm drain adjacent to the park on 30th Street. The Bio-Clean Nutrient Separating Baffle Box is a new mechanism which contains a series of chambers to filter out sediments, trash, and nutrients that treats flow of up to 29.5 cubic feet per second prior to the water flowing downstream to the Storm Tank Module.

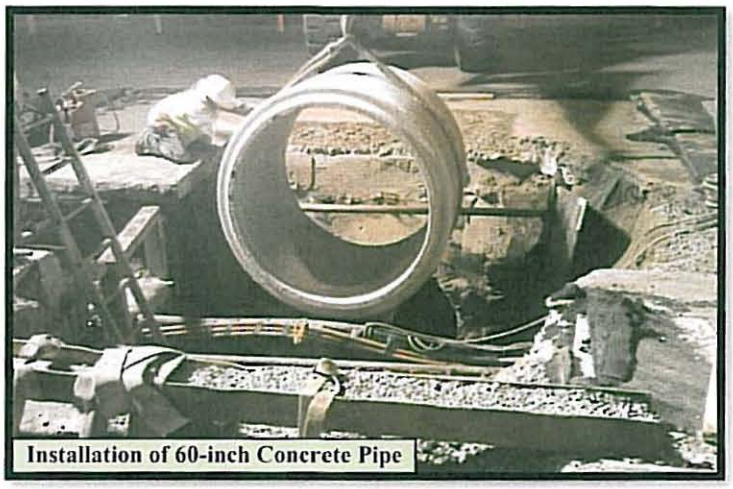
Rancho Peñasquitos Pump Station

APWA: Project of the Year - Utilities $6 - $25 Million

Completed Pump Station

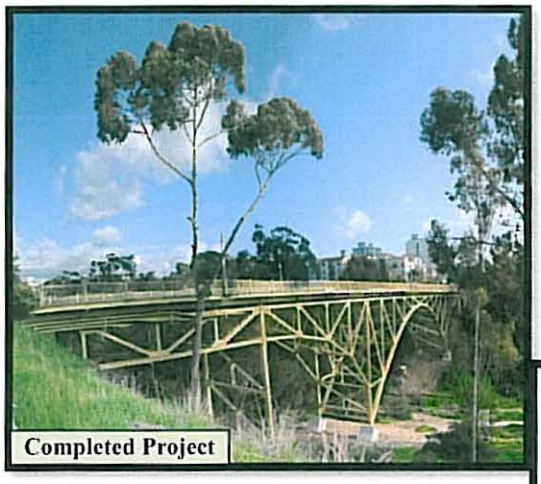
The new Rancho Peñasquitos Pump Station is a state-of-the-art facility that can handle an increased capacity of 32 Million Gallons per Day (MGD). This station replaced the 25 MGD pump station originally built in 1963. The new pump station includes architectural features selected to match the local residences, newly mandated site security features, remote operation and monitoring capability, and extensive noise mitigation equipment. The project directly enhanced service capacity and reliability to the Del Mar Heights, Rancho Bernardo and Rancho Peñasquitos communities as increases in demand are projected for the future.

Garnet Avenue Emergency Storm Drain Replacement
APWA: Project of the Year - Disaster or Emergency Construction/Repair


Installation of 60-inch Concrete Pipe

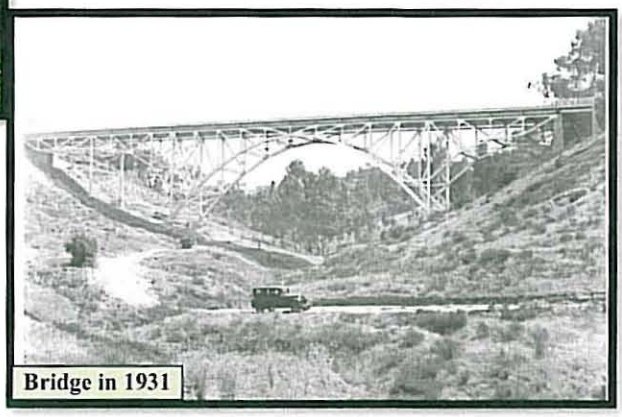
This emergency project replaced the severely deteriorated 60-inch corrugated metal pipe at the intersection of Garnet Avenue and Soledad Mountain Road. The project installed a new 60-inch concrete pipe in only three months, meeting a fast pace schedule required due to the imminent threat of failure to the roadway. The project also overcame multiple challenges including a 70,000 average daily traffic count, obstructing utilities and a sewer main found in the trench. Extensive coordination with the Department of Navy, AT&T and the community was also required. This project increased the reliability of the storm drain infrastructure within Pacific Beach, prevented major failure of a busy roadway, and eliminated the risk of further damage to the community caused by a failing storm drain.

First Avenue over Maple Canyon Bridge Retrofit and Painting Project
ASCE: Award of Excellence - Bridges
SSPC: George Campbell Award


Completed Project

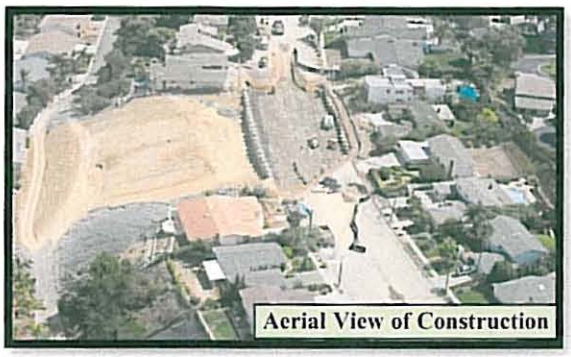
This project ensured the preservation of the historic bridge originally built in 1931 and the only one of its kind in the City of San Diego.

The bridge is now lead-free, has a rehabilitated deck, new historical street lighting, new paint reflecting its original color, and most importantly, it will be able to withstand the strength of a catastrophic earthquake.


Bridge in 1931

Soledad Mountain Road Reconstruction
ASCE: Award of Excellence - Highways & Roads

The Soledad Mountain Road Reconstruction was successfully completed in less than two years; a remarkable time frame considering the multiple obstacles facing the project and the community after the October 2007 landslide. Restoring the road, services and access to homes in a short period of time was critical to move back many of the homeowners to their residences.


Aerial View of Construction


Completed Project

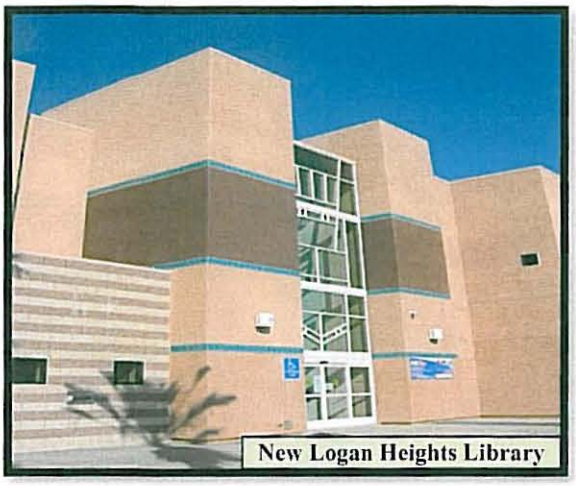
The project included massive earth work, the rebuilding of sewer and water mains, along with gas, electric, telephone and other utilities. The successful completion of the project didn't just improve the area, but surely lifted the community's spirit. This project was a direct testament to the importance of public work in the daily life of our people.

Ocean Beach Bike Path/Hotel Circle North Bikeway Project
ASCE: Award of Merit - Highways & Roads


New Bike Path

This new path between Mission Valley and Ocean Beach has given residents a beautiful corridor along the San Diego River to exercise and enjoy the outdoors. The bikeway provides non-vehicular traffic with a travel route and access ramps between the Ocean Beach and Old Town areas and the retail centers of the Mission Valley area. Additionally, the path runs just to the south of the San Diego River, which provides further recreational and educational opportunities.

Logan Heights Library
Best of 2010 Construction Award - Cultural
California Construction News


New Logan Heights Library

The new, two-story, 25,000-square-foot library replaces the old 3,967-square-foot library originally built in 1927. Since its opening, circulation has increased 390% and attendance has multiplied 5 times.
This new library's location was strategically planned to stand adjacent to two schools, a swim center and a neighborhood park, thus creating a civic, educational and recreational 'heart' for the community. In turn, the value of these public assets will be to promote civic pride, upward mobility and career path opportunities for generations to come.

Racquel Vasquez, Sr. Public Information Officer, Engineering & Capital Projects
APWA: Individual Award of Merit

Racquel Vasquez is part of a dynamic team of public relations '*enthusiasts.*' She leads her team in consistently delivering high quality and outstanding services in managing the public outreach needs for the CIP portfolio including over 1,000 *active* projects at any given time. Her effort and commitment to outstanding service delivery is demonstrated in the high quality of her work product including: extensive utilities project outreach; successful local campaigns; celebration of the 2010 National Public Works Week; milestone ceremonies showcasing 'tax dollars at work;' and many more above and beyond contributions.

Respectfully submitted,

Afshin Oskoui
City Engineer

Approved: Tony Heinrichs
Department of Public Works
Director